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APPLICATION NO.	FILING DAT	E E	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,748 08/30/2001		1	Hiroki Nakahara	9319S-000262	8473
27572	7590 10/26/2004			EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.				RAO, SHRINIVAS H	
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER	
				2814	

DATE MAILED: 10/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/943,748	NAKAHARA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Steven H. Rao	2814					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tiled the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 01 S	September 2004.						
2a)⊠ This action is FINAL . 2b)☐ Thi	s action is non-final.						
,,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 4) Claim(s) 2-5,8-10,12,15 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 2-5,8-10,12,15 & 19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9)☐ The specification is objected to by the Examin	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received in Applicatority documents have been received.	ion No ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary	r (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s)/Mail D						

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Response to Amendment

Applicants' amendment filed on August 19, 2004 has been entered and forwarded to the Examiner on September 01, 2004.

Therefore claims 2-5,8-10,12,15 and 19 as recited in the amendment are currently pending in the Application.

Claims 1,6-7,11,13-14 and 16-18 have been cancelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPR (Applicants' admitted Prior Art shown at least in figure 8 and specification pages 2 and 3, hereinafter AAPR) and further in view of Masaki et al. (U.S. Patent No. 6,271,907, herein after Masaki). (as Applicants' have not amended the claims, the previous rejection is maintained and made FINAL, for response to Applicants' Arguments see section below).

With respect to claim 2, AAPR describes a method of manufacturing a liquid crystal display having a liquid crystal panel with a liquid crystal sealed in liquid crystal

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sealing-in areas disposed between a air of substrates comprising the steps of: a liquid crystal injecting step of injecting a liquid crystal from a liquid crystal injection port into said liquid crystal sealing-in areas said liquid crystal injection port is opened in an end face of said liquid crystal panel. (AAPR fig. 8), an injection port sealing material applying step of applying injection port material to said liquid crystal injection port after injecting the liquid crystal. (AAPR fig. 8), an injection port sealing removal step of removing at least part of said injection port sealing material bleeding outside a contour of said liquid crystal panel (AAPR fig. 8) wherein said injection port sealing material removing step includes a step of absorbing said injection port material by pressing an absorbent material against said injection port material and absorbing said injection port material with said absorbent material. (Masaki col. 11 lines 14-15, Masaki col.6 and figs. 11A and 11 B).

AAPR does not specifically describe an injection port sealing material curing step of curing said injection port sealing material after injection port sealing material removing step.

However, Masaki, in col. 8 lines 25-30 describes an end sealing material curing step of curing said end-sealing material after said end-sealing material removing step to avoid any interaction between the extra sealant present and the liquid crystal material.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to Include Masaki's curing step after the removal In AAPR's method to avoid any interaction between the extra sealant present and the liquid crystal material.

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With claim 15 it repeats the steps of claims 1 and 2 above and is rejected for the same reasons as previously stated (claim 1) and those stated above .

B. Claims 3 to 5, 8-10 ,12 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPR (Applicants' admitted Prior Art shown at least in figure 8 and specification pages 2 and 3, hereinafter AAPR) and Masaki et al. (U.S. Patent No. 6,271,907, herein after Masaki) as applied to claims2, 15 above and further in view of Forlini et al. (U.S. Patent No. 3,744,126, herein after Forilini).

With respect to claims 3 and 4, wherein said end-sealing material removing step includes a step of sucking said end-sealing material by bringing a suction jig into contact with said end-sealing material and sucking said end-sealing material into said sucking jig.

AAPR and Masaki do not specifically describe the sucking step being carried out by a suction jig.

However Forlini, a patent from the same filed of endeavor describes in col4. 4 lines 22-23 the sucking step being performed by a suction jig to apply vacuum without bowing (bending of the layers)

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use Forlini's suction jig as a means to perform the sucking step to apply vacuum without bowing (bending of the layers) (Forlini col. 1 li es 1-10, col. 4 lines 2-30).

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With respect to claim 5, wherein a step of increasing a pressure inside said liquid crystal sealing-in areas of said liquid crystal panel before said liquid crystal injecting step and a step of evacuating said liquid crystal sealing-in areas after said end-sealing material applying step and before said end-sealing material removing step. (Forilini col. 4 lines 39-40).

Claim 8 repeats the steps of claims 1 (previously sated) and 4.

With respect to claim 9 repeats the steps of claims 1 (previously sated) and 4.

With respect to claim 10, it repeats the steps of claims 1, (previously sated) 4 and 8 and is rejected for reasons stated above

With respect to claim 12, it repeats the steps of claims 1 (previously sated) and 4 and is rejected for reasons stated above.

With respect to claim 19, it repeats the steps of claims of claim 12 and is rejected for reasons stated above.

Response to Arguments

Applicant's arguments filed on July 03, 2003 have been fully considered but they are not persuasive for the following reasons:

Applicants' first contention that APR and Masaki do not teach the removal of end sealing material before it has been cured is not persuasive for the same reasons as stated in the previous rejection, namely Further it is well settled law that selection of any order of performing process steps is prima facie obvious in the absence of new or

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unexpected results. (In re Bruhuas, 154 F.2d 690, 69 USPQ 330 (CCPA 1946), see also Ex parte Rubin 126 USPQ 440 (BAPI 1959).

Applicants' are ignoring the fact that both of the Applied references teach removing after curing, thus reinforcing that at least twice in the prior art the step of removing after curing has been taught.

Further Applicants' contention that the claimed method provides inherent and implicit advantages is not persuasive because, "by removing material prior to curing ...it becomes easier to position other elements such as polarizers onto the substrate because there is no excess sealing material present and the liquid crystal panel may be more easily positioned within a case body" is not persuasive. Further it is noted that because claim 1 recites removing the end sealing material before curing and claim 6 recites removing the end sealing material after curing it is not understood how the claimed method provides inherent and implicit advantages that are found in removing material only prior to curing.

It is noted that as Applicants' recite in different claims the step of removal both before and after the curing step, the claimed step of removing after curing cannot provide inherent and implicit advantages.

Applicants' contention that their invention involves absorption it not persuasive because AAPR and Masaki both also when their material is wiped absorption will also occur.

Applicants' contention that their injection port is open is not persuasive because in both Masaki and AAPR the ports are also open till the processing is complete.

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Dependent claims 3-5, 7, 11 and 14 were alleged to be allowable because of their dependency upon allegedly allowable claim 2.

However as shown above claim 2 is not allowable.

Therefore claims 3-5,7,11 and 14 are also not allowable.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Steven H. Rao whose telephone number is (571) 272=1718. The examiner can normally be reached on Monday- Friday from approximately 7:00 a.m. to 5:30 p.m.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956. The Group facsimile number is (703) 308-7724.

LONG PHAM
PRIMARY EXAMINED